# GO SOLAR!

*An Initiative of The Maryland Energy Sector Partnership and Anne Arundel Workforce Development Corporation*

**FALL 2010/SPRING 2011**

# Electrical Pre-Apprenticeship Program

## Solar PV Emphasis

*Prepare for the future of sustainable energy with a job in Solar PV or other renewable energy sectors!*

This program is designed to assist students to launch a career in the electrical trade and/or the solar photovoltaic (pv) field. The training will run 500 hours (14 weeks) and will combine 420 hours lecture and lab with 80 hours of on-the-job training.

### COURSE LEARNING OUTCOMES:

- Maintain job-site safety, according to OSHA safety codes.
- Read blueprints and circuit layouts.
- Comprehend simple circuits and trouble-shooting.
- Understand the National Electrical Code (NEC) and its revisions.
- Communicate succinctly, accurately and effectively with others.
- Recognize basic terminology associated with solar PV industry.
- Describe a site assessment and understand the application of the resulting information.
- Measure solar PV system performance.
- Understand the different configurations of solar PV systems and their applications (mechanical design).
- Apply the code and safety measures specific to solar PV in a job setting.
- Sit for the North American Board of Energy Practitioners (NABCEP) Entry Level Certificate of Knowledge of Solar PV Systems Exam.

The Solar Energy sector has seen an average annual growth of 25% for the past 10 years.

Still a young technology, skilled installers are in high demand, starting out at $12-$20.

### COURSE CERTIFICATIONS:

- North American Board of Certified Energy Practitioners (NABCEP) – Entry Level Exam
- CPR/AED/First Aid
- OSHA 10-hour

*Completion of this program may lead to placement in a traditional electrical apprenticeship program, employment in the solar PV industry or other applicable green/ renewable energy opportunities.*

**CLASSES START AUGUST 23, 2010.**

***Scholarships Available***

## GO SOLAR TRAINING
## FOR NEW AND ENTRY-LEVEL WORKERS

Fall training: August 23, 2010—November 11, 2010
Spring training: January 10, 2011—April 5, 2011

Classes will be held 8:30am–4:30pm, Mon.–Fri.
at the IEC-Chesapeake Training Facility.

*Courses include two weeks of on-the-job training and one week of specialized solar training.*

To learn more about Go Solar Training, attend the ORIENTATION

August 12, 2010 from 10:00am—12:00pm
at the IEC-Chesapeake Training Facility,
1424 Odenton Road, Odenton, MD 21113
(301) 621-9545

*Register at 410-987-3890 or greenjobs@aawdc.org.*

### *Course Work*

#### Electrical

- Introduction to basic electricity and electrical theory
- Electrical materials, fasteners, blue prints and building codes
- Commercial and residential wiring, conduit bending and circuit layouts
- Troubleshoot and repair electrical systems
- Entrance calculations, transformers and grounding requirements
- Simple circuits
- The National Electrical Code (NEC)
- PV systems

#### Solar PV

- Solar Fundamentals
- Site Assessment
- Systems Performance
- PV Modules
- System Components
- System Design
- Mechanical Design
- Code and Safety
- Review – North American Board of Energy Practitioners (NABCEP) – Entry Level Exam

*For more information: greenjobs@aawdc.org*

Training Provided by

Anne Arundel Community College
Students First

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GO SOLAR!